

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-17577

Exam Date: 4/24/2013

1. Current Owner: UNITED STATES OF AMERICA ACTING THROUGH
USDI BUREAU OF LAND MANAGEMENT
IDAHO STATE OFFICE
1387 S VINNELL WAY
BOISE ID 83709-1657
(208) 373-4000
2. Accompanied by: Jeff Cooper (IDWR)

3. **SOURCE** **TRIBUTARY**
MC CONGLE CANYON CREEK SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

MC CONGLE CANYON CREEK NW1/4NW1/4SE1/4 Sec. 31, Twp 14S, Rge 16E, B.M.
TWIN FALLS County

Method of Determination: GIS and aerial photography

2.

PLACE OF USE: STOCKWATER STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
14S	16E	31														X			

PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
14S	16E	31														X			

Method of Determination: GIS and aerial photography

D. FLOW MEASUREMENTS

N/A (on stream storage)

E. FLOW CALCULATIONS

N/A (on stream storage)

F. VOLUME CALCULATIONS

- Surface area of reservoir = 0.18 acres (per condition 220 on water right permit and GIS shape file for reservoir boundary using Esri aerial photography)
- Embankment across channel was surveyed using a survey rod and survey level and it was determined that the hydraulic height of the embankment is 9.81 feet.

Using the V-shaped reservoir capacity equation from the IDWR Field Examiners Handbook:

Capacity = Surface area x Maximum Depth x 0.4 = 0.18 acres x 9.81 feet x 0.4 = 0.70632 acre-feet

G. NARRATIVE/REMARKS/COMMENTS

Application for Permit 47-17577 was filed May 8, 2012 and the permit was issued July 11, 2012 for 0.70 acre-feet of stockwater and wildlife storage use on Mc Congle Canyon Creek. Proof of Beneficial Use was filed on July 18, 2012. On April 24, 2013 Jeff Cooper (IDWR) and I conducted the licensing field exam for permit 47-17577.

The system consists of an earth embankment constructed across the channel in the bottom of Mc Congle Canyon approximately four miles southwest of Rogerson. An open channel spillway exists on the right (east) end of the embankment. Jeff and I used a survey rod and survey level to measure the height of the embankment. The embankment was measured at 11.4 feet in height (downstream toe to embankment crest). The hydraulic height was measured at 9.81 feet (downstream toe to spillway crest). As indicated in the volume calculations above, the reservoir capacity is estimated at approximately 0.7 acre-feet, which corresponds to the permitted amount. During the exam several deer tracks were noted around the reservoir and livestock trails were noted leading to/from the reservoir. The Esri aerial photography appears to indicate several cattle on the embankment and just downstream of the reservoir. In addition, the livestock trails are also visible in the Esri aerial photo. Over the years I have personally witnessed deer, coyotes, and numerous cattle in the vicinity of this particular reservoir. It is recommended that license 47-17577 be issued for 0.7 acre-feet of stockwater and wildlife storage.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER STORAGE	01/01 to 12/31	N/A	0.70 AF
WILDLIFE STORAGE	01/01 to 12/31	N/A	0.70 AF
<u>Totals:</u>		N/A	0.70 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

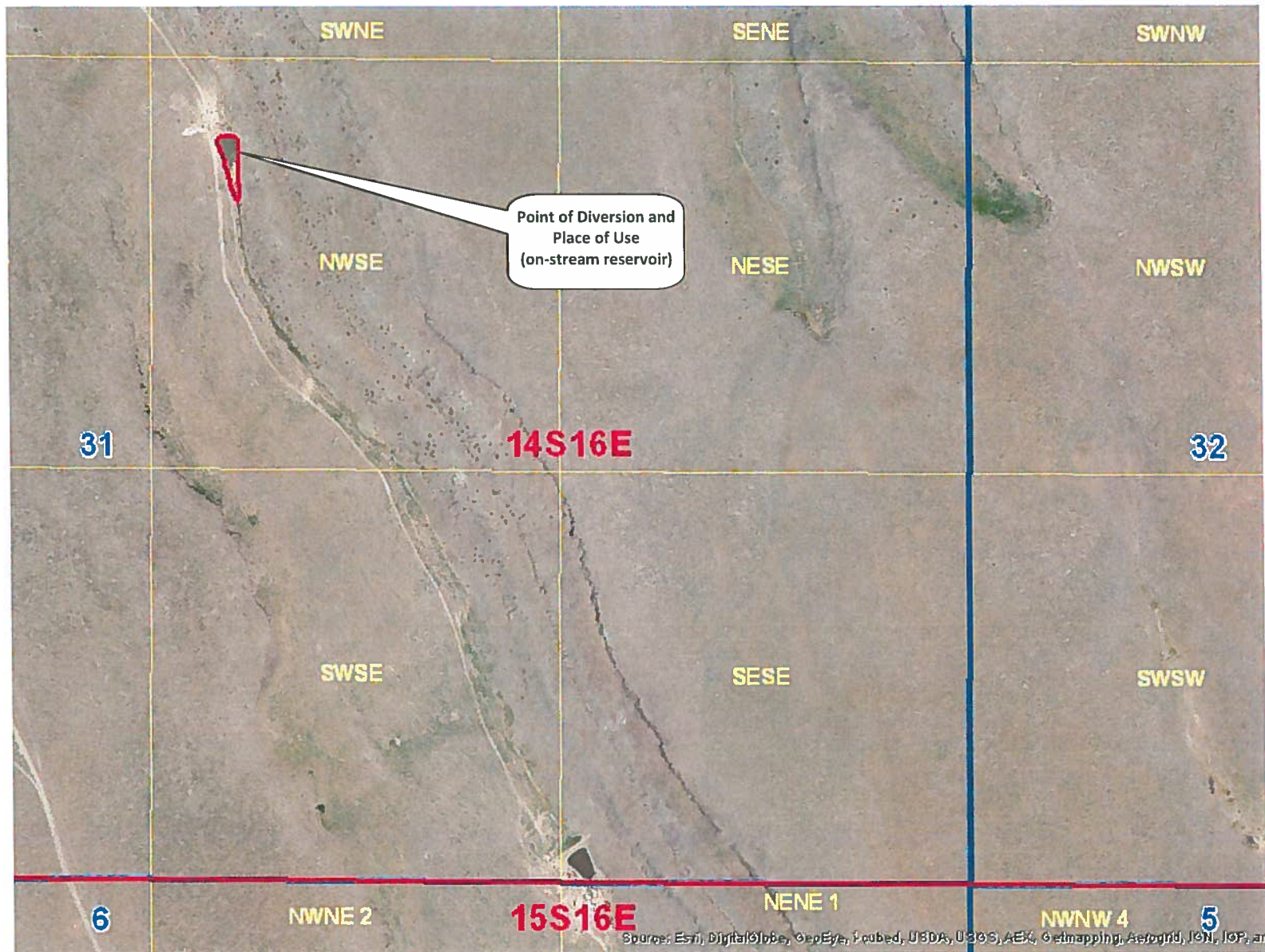
I. AUTHENTICATION

Field Examiner's Name  Date 5/18/2013

Reviewer  Date 5/21/2013

47-17477 Point of Diversion and Place of Use Map

Esri Imagery



47-17577 Point of Diversion and Place of Use Photos



ABOVE: View of the embankment and reservoir in the bottom of Mc Congle Canyon from the left (west) end of the embankment. Note that the embankment is built across the channel in the bottom of the canyon (on stream storage).

BELOW: View of the embankment and reservoir from the right (east) abutment area showing the spillway channel at the right (east) end of the embankment. Note the reservoir high water mark and the head cutting erosion in the spillway channel indicating that the reservoir has been full in the past.

